Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_

Directions:

1.) Which statements are true about graphs and systems of equations? Check all that apply.

a. The origin on the coordinate plane can never be a solution to a system of equations.

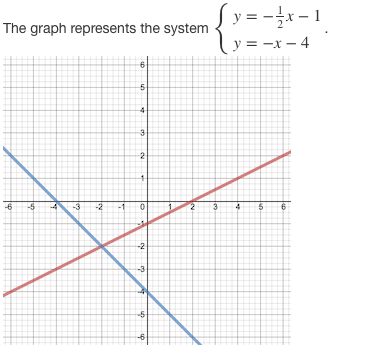
b. If two lines intersect, then their system always has one solution.

c. A system with no solution can be represented by parallel lines.

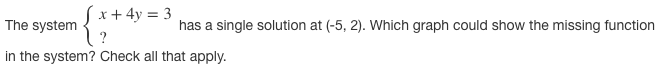
d. A system cannot have more than one solution.

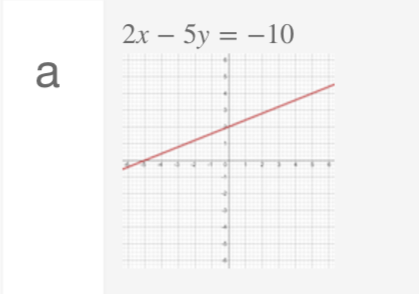
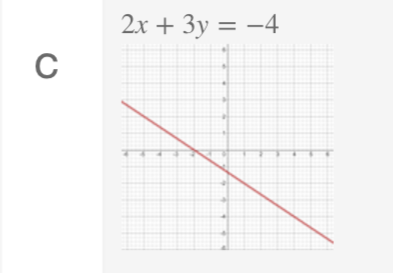
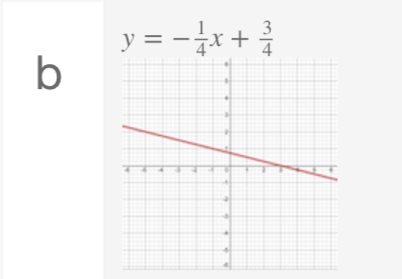
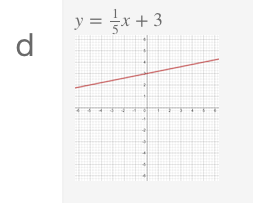
e. An intercept is always a solution to a system of equations.

2.)

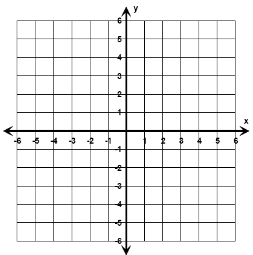


What is the solution to the system?

3. 

4. Macintosh HD:Users:catherinemorgan:Desktop:Screen Shot 2017-09-27 at 9.17.12 PM.png

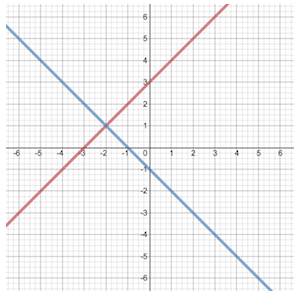


5. A system of equations which includes y = (1/3)x – 1 has infinitely many solutions.

Which ordered pairs are included on a graph of the solutions to the system? Check all that apply.

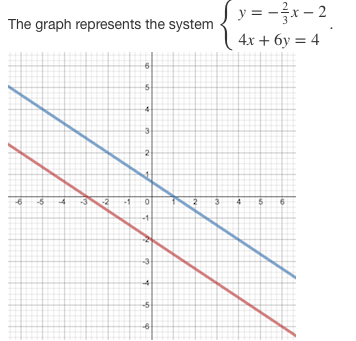
a. (-1, 0) b. (3, 0) c. (-21, -8) d. (4, 15) e. (-6, -3)

6. For what ordered pair (x, y) are y = x+3 and y = -x – 1 both true?



a. (1,2) b. (-1, 2) c. (2, -1) d. (-2, 1)

7.



Word bank: no, one, infinitely many, can be true, cannot be true

Complete the sentence: The system of equations has \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ solution(s) because both equations \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for the same ordered pair.

Graph the following systems of equations on graph paper and find its solution (if it has one) by graphing:

8.

y = (1/4)x + 1

2x – 4y = 8

9.

y = (-2/5)x + 1

2x + 5y = 5

10.

y = x

x – y = 4